

SiMP®-Seal 55

ONE-PART HYBRID POLYMER ELASTIC ADHESIVE FREE OF SOLVENT AND ISOCYANATE

Product description:

SiMP-Seal 55 is a one-part, High modulus, Silyl-Terminated Polymer Adhesive-Sealant. Once extruded it cures by reaction to the atmospheric moisture to form a high performance, permanently flexible elastic adhesive. Characterised by a high thixotropy it has a good initial grab (green strength)

- Environmental friendly – Free of isocyanates and solvents
- No Hazard symbol required
- Odourless
- Permanently flexible
- No change in volume – No shrinkage
- No bubble formation
- Primer-less adhesion on almost every substrate
- Non-sag consistency - Exceptional thixotropy – load bearing capacity
- High mechanical/dynamic stress resistance – shock/impact resistant
- Increase torsional stiffness of final assembly
- Vibration and sound damping properties
- Excellent weathering resistance - extremely good colour stability and UV resistance
- Over-paintable with many water, solvent based paints (preliminary tests recommended)

Application:

SiMP-Seal 55 is a powerful and versatile adhesive sealant for all jobs involving sealing & bonding regarding a wide range of materials including metals, sheet steel (galvanised, plated and painted), untreated or anodised aluminium, brass, copper, glass, GRP, wood, concrete and many rigid plastics.

For use in elastic, structural bonding applications in industrial (assembling of insulated panels; vibration-proof bonding and sealing on components made of steel, aluminium, wood, GRP and other plastics materials and painted surfaces), automotive, transportation (coach, caravan, refrigerated vehicles, containers) and marine, where a tough flexible rubber joint or powerful elastic adhesive is required.

Product properties:

- Chemical nature	SiMP – Silyl Terminated Polymer
- Curing mechanism	Moisture curing
- Specific gravity	1,52 gr/cc $\pm$ 0,02 gr/cc
- Tack Free Time at 23°C and 50% r.h.	25'-30'
- Curing time at 23°C and 50% r.h.	$\approx$ 3 mm/24h
- Hardness Shore A (DIN 53505)	55
- Elastic Modulus at 100% (DIN 53504)	2,1 N/mm ²
- Tensile strength (DIN 53504)	3,5 N/mm ²
- Elongation at break (DIN 53504)	$\geq$ 280%
- Elastic recovery (DIN 52455)	$\geq$ 90%
- Application temperature	+ 5°C / +35°C
- Temperature resistance	-40°C / +80°C



Application advises:

The surfaces to be treated should be perfectly clean, dry and free from dust and grease. Primers may be required on some substrates and in certain application cycles. It is recommended that NPT Technical department should be consulted with regards the choice of Primer for specific purposes.

SiMP®-Seal 55 may be over-painted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paint may increase.

Colour Range - Packing :

Standard Colours:	White/Black/Grey
PE cartridges 290 ml.:	12 cartridges per box
Alu-PE bags 600 ml.:	20 bags per box (on request)
Alu-PE bags 400 ml.	12 bags per box (on request)

Storage:

SiMP®-Seal 55 can be stored for 12 months in its original packing at 5° - 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time.

Keep away from heat sources.

General Information:

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out. N.P.T. srl reserves the right to modify and up-date said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.

ALWAYS CONSULT THE SAFETY DATA SHEETS BEFORE USING THE PRODUCT.

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